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ASSOCIATES,
INC.

Geoenvironmental Engineering and Technologies

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MAY 9 1990
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May 8, 1990

Mr. Mike Kuntz
Washington State Department of Ecology
M/S PV-11
Olympia, WA 98504-8711

RE: APRIL 1990 PROGRESS REPORT
COLBERT LANDFILL RD/RA

Dear Mr. Kuntz:

Presented herein is the April 1990 Progress Report for the Colbert Landfill RD/RA Superfund Project (Project), which was prepared by Landau Associates, Inc. (Landau Associates), Spokane County's engineering consultant. It addresses the reporting requirements specified in Section XI of the Project Consent Decree, including:

- A description of remedial action activities commenced or completed during the reporting period
- Remedial action activities projected for the next reporting period (through May 1990)
- Any problems that have been encountered or are anticipated.

1.0 ACTIVITIES COMMENCED/COMPLETED DURING REPORTING PERIOD

Several activities were commenced and/or completed during the reporting period. Most of these activities are related to continuation of Phase I field activities and work plan preparation. Specifically, activities accomplished during this period include:

- Well construction activities were commenced and/or completed at a number of Phase I well locations (refer to attached Site Plan, Figure 1).
 - Monitoring Well CD-25 was completed. The well is located about 60 ft north of Pilot Well CP-E2 and is screened in the Basalt Aquifer from about 175 to 195 ft below ground surface (BGS).
 - Monitoring Well CD-33 was completed. The well is located about 15 ft south of Pilot Extraction Well CP-S1 and is screened in the Upper Sand/Gravel Aquifer from about 95 to 105 ft BGS.
 - Monitoring Well CD-44 was completed. The boring was extended to the base of the Lower Sand/Gravel Aquifer at about 305 ft BGS (underlain by granite), and the monitoring well is screened (in the Lower Sand/Gravel Aquifer) from about 225 to 245 ft BGS.

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- The boring for Monitoring Well CD-45 was advanced to about 130 ft BGS. The boring will be advanced to the base of the Lower Sand/Gravel Aquifer, anticipated to be about 320 ft BGS. The monitoring well will be screened over about the same interval as that selected for CD-44, unless data collected during drilling indicates a different interval is more appropriate.
- Pilot Well CP-E1 was completed. The well is located about 220 feet east of monitoring well location CD-21 and is screened in the Lower Sand/Gravel Aquifer from about 235 to 245 ft BGS.
- Pilot Well CP-S1 was completed. The well is located about 40 ft north of Monitoring Well CD-30 and is screened in the Upper Sand/Gravel Aquifer from about 100 to 105 ft BGS. The well was constructed with a sand pack because of limited available drawdown and poorly graded aquifer material.
- An Upper Sand/Gravel Aquifer water elevation survey was completed. Ground water elevation data are generally consistent with previous data. A ground water elevation contour map (Figure 2) of the recently collected data is attached to this progress report.
- The Phase I Treatment and Discharge Plan was submitted to EPA/Ecology for review and approval on March 30, 1990. EPA/Ecology Work Plan comments are needed by June 1, 1990, to prevent delays in the Phase I pilot studies.
- Final revisions to the Plan for Institutional Controls were forwarded to EPA/Ecology March 30, 1990.
- Development of a Project fact sheet was initiated. A draft of the fact sheet should be available for EPA/Ecology review by about May 7, 1990.

2.0 ACTIVITIES PROJECTED TO BE COMMENCED/COMPLETED DURING NEXT REPORTING PERIOD

As specified in the Schedule For Submittal of Deliverables, the next reporting period extends through May 1990. Anticipated activities for May include continuation of well construction activities, well development, ground water sampling and analysis, and publication of the Project fact sheet. Specific activities anticipated for the next reporting period include:

- Complete construction of Monitoring Well CD-26. The well will be completed in the Lower Sand/Gravel Aquifer and the anticipated screen depth is about 225 ft BGS (by mid-May).
- Complete Monitoring Well CD-45. The well will be completed in the Lower Sand/Gravel Aquifer and the anticipated screen depth is about 230 ft BGS (by mid-May).
- Initiate construction of Monitoring Well CD-46. The boring will be advanced to the base of the Lower Sand/Gravel Aquifer and the anticipated screen depth is about 230 ft BGS (by late May).

- Complete development of Wells CD-25, CD-33, CD-44, CD-45, CP-E1, CP-E2, and CP-S1 (by mid-May).
- Complete ground water sampling for Wells CD-24, CD-25, CD-33, CD-44, CD-45, CP-E1, CP-E2, and CP-S1 (by late May).
- Submit the geophysical interpretive report (by mid-May).

3.0 ENCOUNTERED/ANTICIPATED PROBLEMS

No significant problems were encountered during April. Property access was obtained from Glacier Park for monitoring well locations CD-26, CD-45, and CD-46. Thus, property access is not a significant problem at this time.

Timely review of the Phase I Treatment and Discharge Plan by EPA/Ecology is essential to keeping the Phase I pilot studies on schedule. It is anticipated that about 60 to 90 days will be required from Work Plan approval to completion of pilot facility construction. Thus, in order to initiate pilot activities by the beginning of September, the Treatment and Discharge Plan must be approved by about the beginning of June.


* * * * *

This progress report describes the major remedial action activities commenced or completed during the reporting period, anticipated to be commenced or completed during the next reporting period, and any problems encountered or anticipated. As such, there are secondary and peripheral activities associated with these major tasks that are not described herein. If clarification is required for any of the activities presented in this progress report, or if additional information is desired for secondary or peripheral activities, please contact me or Dean Fowler (Spokane County).

Very truly yours,

LANDAU ASSOCIATES, INC.

By:


Lawrence D. Beard, P.E.
Project Manager

LDB/njb
attachments
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cc: Neil Thompson, EPA
Dean Fowler, Spokane County
Lyle Diedieker, Ecology and Environment

